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071619 - Metal-Oxide Waterproofing

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SECTION 07 1619 - METAL-OXIDE WATERPROOFING

1.1 SUMMARY

- A. Section includes:
 - 1. All exterior walls below grade that enclose rooms and spaces.
 - 2. Walls below grade in elevator pits.
- B. Section includes metal-oxide waterproofing for application to concrete elevator pits and sump pits.

1.2 SUBMITTALS

- A. LEED Submittal:
 - 1. Product Data for Credit EQ 4.1: For installation adhesives, including printed statement of VOC content.

1.3 WATERPROOFING MATERIALS

- A. Metal-Oxide Waterproofing Compound: A product specifically formulated for waterproofing concrete and masonry substrates; containing pulverized iron and a chemical oxidizing agent to cause the iron particles to rust and grow in size in the presence of water; with VOC content complying with limits of authorities having jurisdiction.
 - 1. Products:
 - a. Euclid Chemical Company (The); Iron Waterpeller.
 - b. Metalcrete Industries; Metalcrete Waterproofing.
 - c. Specco Industries, Inc.; Speccrete Metallic Waterproofer.

1.4 ACCESSORY MATERIALS

- A. Patching Compound: Factory-premixed cementitious repair mortar, crack filler, or sealant recommended by waterproofing manufacturer for filling and patching tie holes, honeycombs, reveals, and other imperfections; compatible with substrate and other materials indicated; and VOC content complying with limits of authorities having jurisdiction.
- B. Plugging Compound: Factory-premixed cementitious compound with hydrophobic properties and recommended by waterproofing manufacturer; resistant to water and moisture but vapor permeable for all standard applications (vertical, overhead, and horizontal surfaces not exposed to vehicular traffic); compatible with substrate and other materials indicated; and VOC content complying with limits of authorities having jurisdiction.

- C. Portland Cement: ASTM C 150, Type I.
- D. Sand: ASTM C 144.
- E. Water: Potable.

1.5 MIXES

- A. Metal-Oxide Coats: Add metal-oxide waterproofing compound to portland cement, sand, and water according to manufacturer's written instructions. Blend together with mechanical mixer or by hand to required consistency for each coat.
- B. Protection Coat: Field mix protection coat consisting of portland cement and sand as recommended by same manufacturer as metal-oxide waterproofing according to manufacturer's written instructions for application over waterproofing. Measure, batch, and mix materials with potable water. Blend together with mechanical mixer to required consistency.

END OF SECTION 07 1619